## IN THE CLAIMS:

Please cancel claims 1 and 12 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 2, 3, 5, 6, 13, 14, 16, 17, 23, 25 and 26 as follows.

- 1. (Canceled)
- 2. (Currently Amended) An insertion method according to claim 43, wherein the watermarked value is selected from a range of values determined around the value of the coefficient according to a psycho-visual model.
- 3. (Currently Amended) A method of inserting a message in an image, the message comprising binary symbols which are each referenced by an index, comprising, for a coefficient of the image, the steps of:
- determining a watermarked value of the coefficient, according to the binary value of a symbol of the message and according to the index of the symbol in the message, wherein the index of the symbol is determined from a value of the coefficient of the image, and
- inserting the watermarked value in place of the value of the coefficient An insertion method according to claim 1, wherein the determination of a watermarked value of the coefficient comprises:
  - selecting a modified value of the coefficient,
- determining a symbol index, according to the modified value and a first predetermined function,
- determining the value of the message symbol corresponding to the predetermined index, and

- verifying that the value of the symbol previously determined corresponds to the transformation of the modified value by a second predetermined function.
- 4. (Original) An insertion method according to claim 3, wherein, if the value of the symbol previously determined corresponds to the transformation of the modified value by a second predetermined function, the method comprises the step of:
- testing for determining whether the number of times the symbol has already been inserted in a coefficient of the image is the lowest amongst all the symbols whose index was determined according to the modified value and the first predetermined function and whose value corresponds to the transformation of the modified value by the second predetermined function, for the coefficient in question.
- 5. (Currently Amended) An insertion method according to claim 13, wherein the insertion of the binary symbols is carried out on the value of the luminance of the pixels of the image.
- 6. (Currently Amended) An insertion method according to claim 13, wherein said index of the symbol is automatically determined in accordance with the coefficient of the image.
- 7. (Previously Presented) A method of extracting a message from an image, comprising the steps of:
- for each coefficient of the image, calculating a symbol index and a binary value, both according to a value of the coefficient, ,
  - totaling the number of each of the binary values obtained for each of the symbols, and
  - allocating to each symbol the binary value having the largest total.

- 8. (Previously Presented) An extraction method according to claim 7, wherein, for a coefficient of the image, the symbol index is determined according to the watermarked value of the coefficient and a first predetermined function.
- 9. (Previously Presented) An extraction method according to claim 7, wherein, for a coefficient of the image, the binary value of the symbol is determined according to the value of the coefficient and a second predetermined function.
- 10. (Previously Presented) A method of extracting a message from an image, comprising the steps of:
- for a coefficient of the image, calculating a symbol index according to a value of the coefficient, for each coefficient of the image,
- calculating a first and a second value, both according to a value of the coefficient, for each coefficient of the image,
- first totaling of the absolute values of the differences between the value of the coefficient and the first value, for each symbol, and
- second totaling of the absolute values of the differences between the value of the coefficient and the second value, for each symbol,
- allocating to each symbol a binary value according to the smallest total amongst the first and second totals.
- 11. (Previously Presented) An extraction method according to claim 10, wherein, for a coefficient, the symbol index is determined according to the value of the coefficient and a first predetermined function.

## 12. (Canceled)

- 13. (Currently Amended) An insertion device according to claim 1214, wherein the determination means are adapted to select the watermarked value from a range of values determined around the value of the coefficient according to a psycho-visual model.
- 14. (Currently Amended) <u>A device for inserting a message in an image, the message</u> containing binary symbols which are each referenced by an index, comprising:
- means for determining a watermarked value of a coefficient of the image, according to the binary value of a symbol of the message and according to the index of the symbol, wherein the index of the symbol is determined from a value of the coefficient of the image, and
- means for inserting the watermarked value in place of the value of the coefficient An insertion device according to claim 12, wherein the means of determining a watermarked value of the coefficient comprise:
  - means for selecting a modified value of the coefficient,
- means for determining a symbol index, according to the modified value and a first predetermined function,
- means for determining the value of the message symbol corresponding to the predetermined index, and
- means for verifying that the value of the symbol previously determined corresponds to the transformation of the modified value by a second predetermined function.
  - 15. (Original) An insertion device according to claim 14, comprising:

- test means, if the value of the previously determined symbol corresponds to the transformation of the value modified by a second predetermined function, for determining whether the number of times the symbol has already been inserted in a coefficient of the image is the lowest amongst all the symbols whose index was determined according to the modified value and the first predetermined function and whose value corresponds to the transformation of the modified value by the second predetermined function, for the coefficient in question.
- 16. (Currently Amended) An insertion device according to claim 1214, being adapted to carry out the insertion of the binary symbols on the luminance value of the pixels of the image.
- 17. (Currently Amended) An insertion device according to claim 1214, wherein said index of the symbol is automatically determined in accordance with the coefficient of the image.
- 18. (Previously Presented) A device for extracting a message from an image, comprising:
- means for calculating, for each coefficient of the image, a symbol index and a binary value, both according to a value of the coefficient, ,
- means for totaling the number of each of the binary values obtained for each of the symbols, and
  - means for allocating to each symbol the binary value having the largest total.
- 19. (Previously Presented) An extraction device according to claim 18, being adapted to determine, for a coefficient of the image, the symbol index according to the value of the coefficient and a first predetermined function.

- 20. (Previously Presented) An extraction device according to claim 18, being adapted to determine, for a coefficient of the image, the binary value of the symbol according to the value of the coefficient and a second predetermined function.
- 21. (Previously Presented) A device for extracting a message from an image, comprising:
- means for calculating, for each coefficient of the image, a symbol index according to a value of the coefficient,
- means for calculating first and second values according to the value, for each coefficient of the image,
- means for first totaling of the absolute values of the differences between the value of the coefficient and the first value, for each symbol,
- means for second totaling of the absolute values of the differences between the value of the coefficient and the second value, for each symbol,
- means for allocating to each symbol a binary value according to the smallest total amongst the first and second totals.
- 22. (Previously Presented) An extraction device according to claim 21, being adapted to determine, for a coefficient of the image, the symbol index according to the value of the coefficient and a first predetermined function.
- 23. (Currently Amended) An insertion device according to claim 1214, wherein the determination and insertion means are incorporated in:
  - a microprocessor,
  - a read only memory containing a program for processing the data, and

- a random access memory containing registers adapted to record variables modified during the execution of said program.
- 24. (Original) An extraction device according to claim 18, wherein the calculation, totaling and allocation means are incorporated in:
  - a microprocessor,
  - a read only memory containing a program for processing the data, and
- a random access memory containing registers adapted to record variables modified during the execution of said program.
- 25. (Currently Amended) An apparatus for processing a digital image, comprising means adapted to implement the method according to claim  $\pm 3$ .
- 26. (Currently Amended) Apparatus for processing a digital image, comprising the device according to claim 1214.